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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,508	03/10/2004	Michael Pang-Cheng Hsu	884.367US3	4011
21186	7590 09/30/2004		EXAMINER	
SCHWEGN	MAN, LUNDBERG, WC	CUNNINGHAM, TERRY D		
P.O. BOX 2938 MINNEAPOLIS, MN 55402				
			ART UNIT	PAPER NUMBER
			2816	
		DATE MAILED: 09/30/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/797,508	HSU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Terry D. Cunningham	2816				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. - after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin - earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be t ly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS froi e, cause the application to become ABANDON	imely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
Responsive to communication(s) filed on		•				
<u> </u>	— · his action is non-final.					
<u> </u>		proceeding as to the morits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) 7-26 is/are pending in the applicatio	n.					
4a) Of the above claim(s) is/are withdra	own from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>7-26</u> is/are rejected.						
7) Claim(s) is/are objected to.	′)□ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on 10 March 2004 is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list. * See the attached detailed Office action for a list.	ureau (PCT Rule 17.2(a)).	-				
* See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language pr	ovisional application has been re	ceived.				
Attachment(s)	the priority under oo o.o.o. 98 12	unu/UL 121.				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)				

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DETAILED ACTION

Abstract

The abstract is objected to as discussed the non-elected invention. Appropriate correction is required. The Abstract is general enough to cover all embodiments of the invention. The Abstract should be limited to the claimed embodiment of the invention.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 7-26 rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 26-37 of copending Application No. 10/146,689.

Although the conflicting claims are not identical, they are not patentably distinct from each other

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because the specificity of the claims necessarily anticipates the claim language of the instant invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-11 and 17-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Soyner (USPN 5,422,603) in view of Matsui (USPN 6,3000,803). Soyner discloses, in Fig. 1, a circuit comprising: "voltage controlled oscillator (100)"; and "a phase detector (300)". However, the reference to Soyner fails to disclose any specific details for the broad "phase detector" 300. The reference to Matsui discloses, in Fig. 8, a specific phase detector comprising "a sampling circuits (Q11 and Q12)" and a "linear voltage-to-current converter" having "a first transconductance amplifier (Q1, Q2, Q7, Q8 and Q16)"; and "a second transconductance amplifier (Q3-Q5, Q9, Q10, Q13, Q14 and Q17)"; and "an output stages (Q6 and Q15)". This phase detector is disclosed as having the advantage of offset compensation. Therefore, it would have been obvious for one skilled in the art to use the specific phase detector circuit of Matsui for the broad phase detector 300 of Soyner for the expected advantage of offset compensation.

Claims 12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishikawa (USPN 5,748,018) in view of Soyner and Matsui. Ishikawa discloses, in Figs. 1C and 3A, a circuit comprising: "a phase lock loop (613)"; and "a plurality of sequential elements (100 and

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200)". The reference to Ishikawa does not expressly disclose the details of the PLL circuit. The

above discussed combination of Soyner and Matsui provides a circuit having offset

compensation". Therefore, it would have been obvious to use the specific PLL in the above

combination to Soyner and Matsui for the broad PLL 613 in the reference to Ishikawa to obtain

the expected advantage of offset compensation therein.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Terry Cunningham whose telephone number is 703-308-4872.

The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy P. Callahan can be reached on 703-308-4876. The fax phone numbers for

Technology Center 2800 are 703-872-9318 for Before Final communications and (703) 872-

9306 for After Final communications. Please note, any faxed paper clearly stating **DRAFT** or

PROPOSED AMENDMENT at the top will be forwarded directly to the Examiner. All others

will be treated as a formal response and acted upon accordingly.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is 703-308-0956.

TC

September 27, 2004

Terry D. Cunningham

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Primary Examiner

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